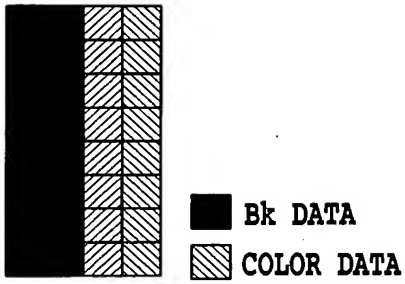
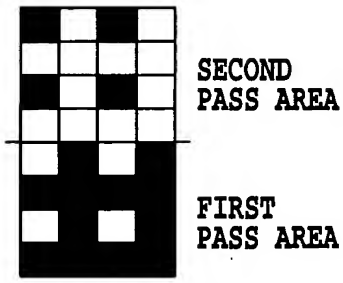


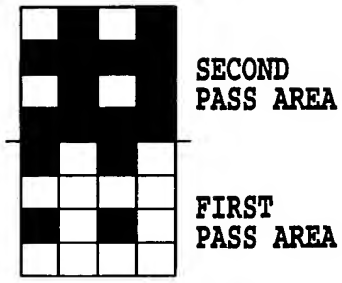
IMAGE DATA
(4 X 8 PIXELS)

FIG.1A



DIVISION
PATTERN
(FOR Bk)

FIG.1B



DIVISION
PATTERN
(FOR ANOTHER COLOR)

FIG.1C

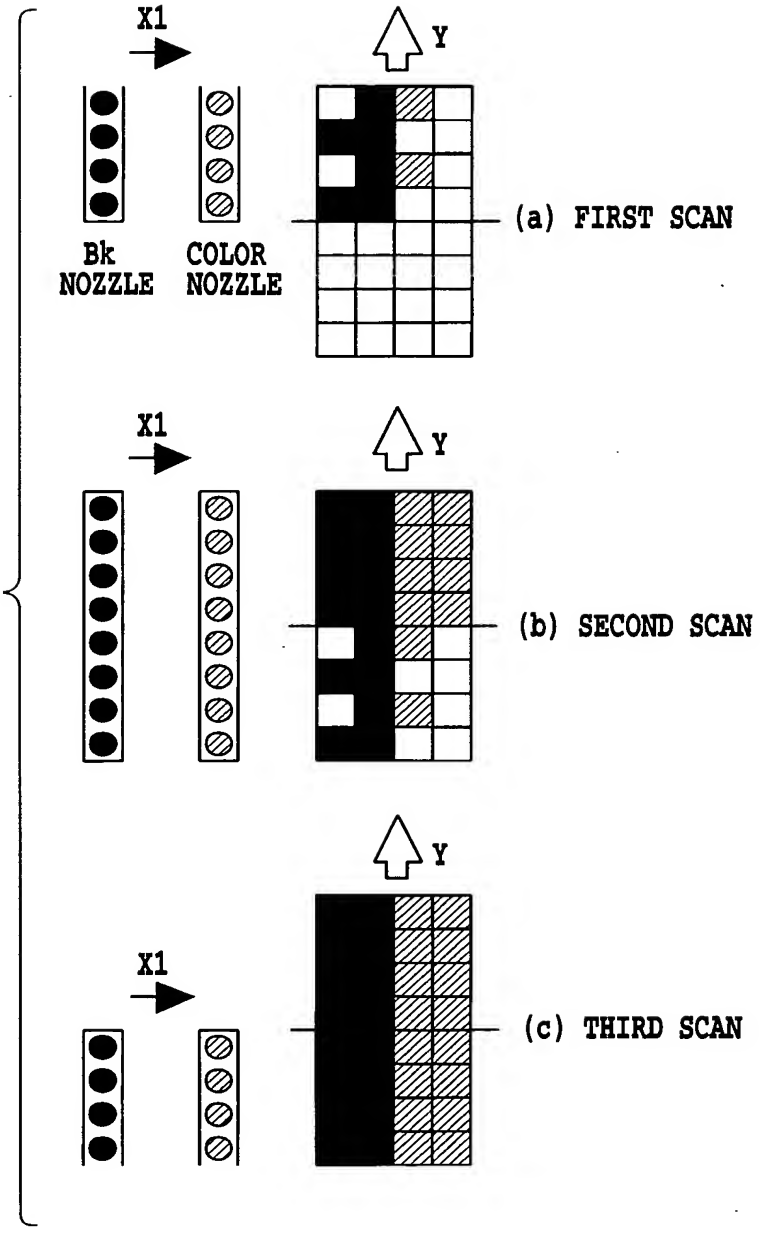


FIG.1D

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JP2002-059601 2002.02.26

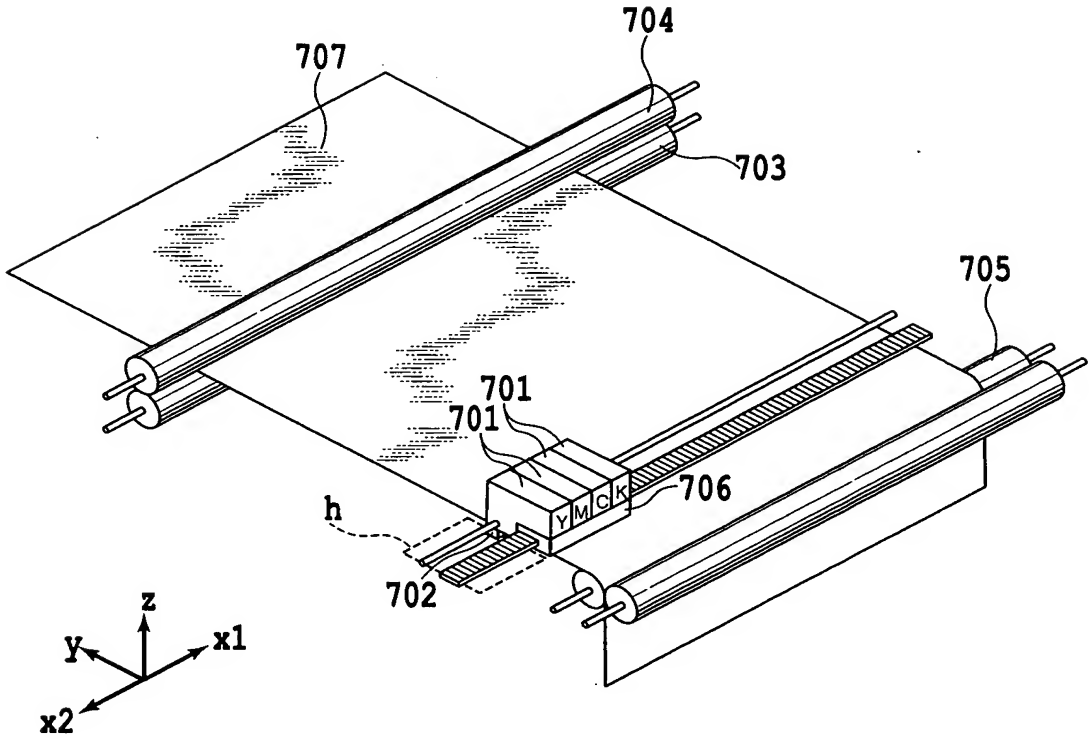


FIG.2A

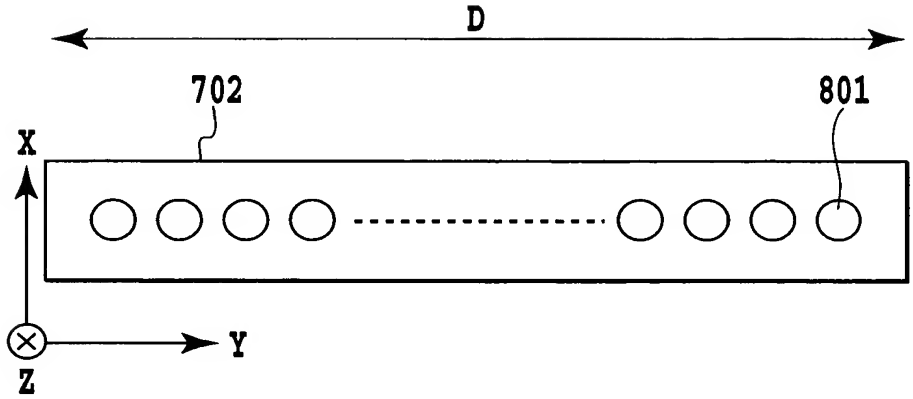


FIG.2B

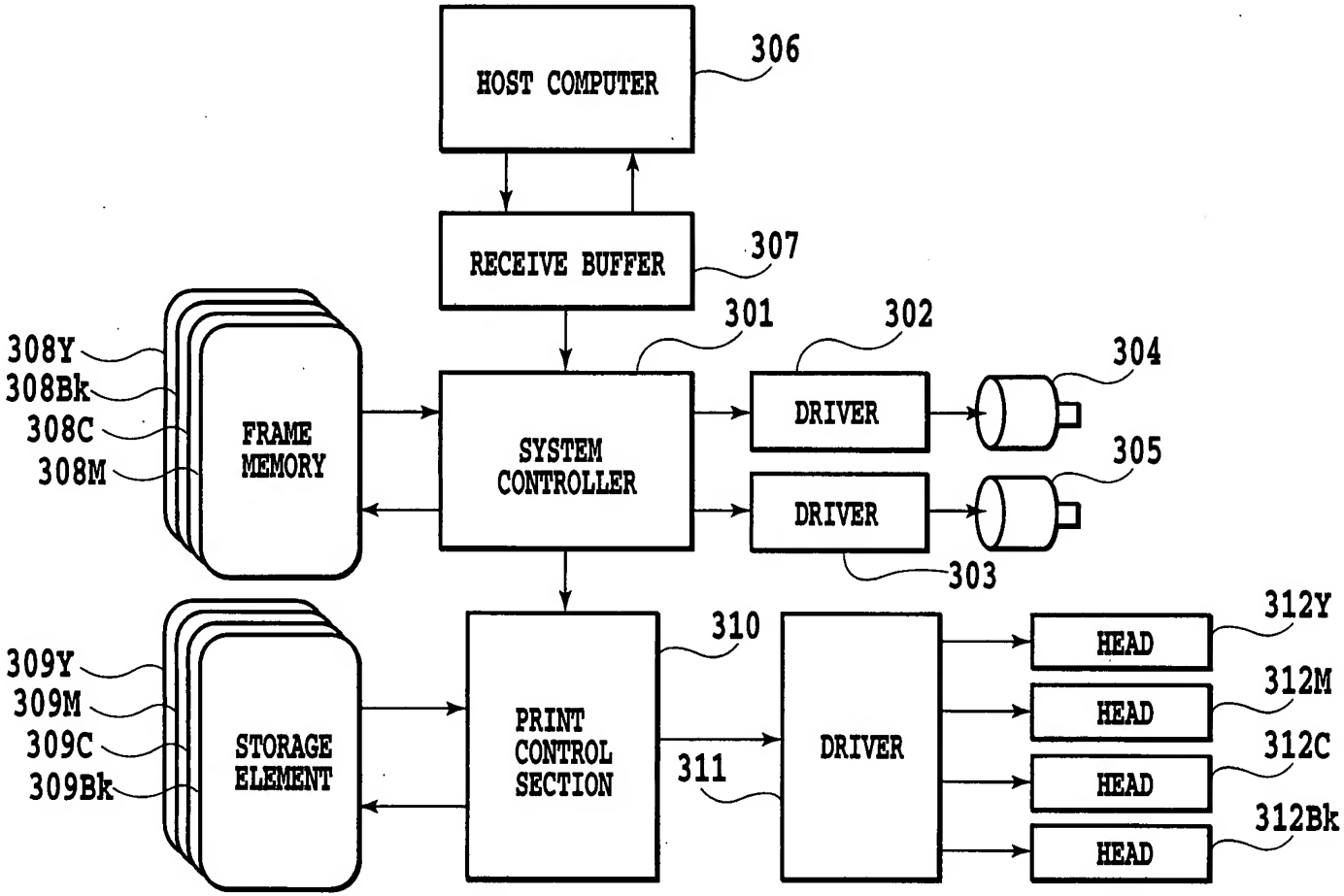

HOST COMPUTER
306
RECEIVE BUFFER
307
301
302
304
305
303
308Y
308Bk
308C
308M
FRAME MEMORY
SYSTEM CONTROLLER
DRIVER
DRIVER
309Y
309M
309C
309Bk
STORAGE ELEMENT
PRINT CONTROL SECTION
310
311
DRIVER
HEAD
HEAD
HEAD
HEAD
312Y
312M
312C
312Bk

FIG.3

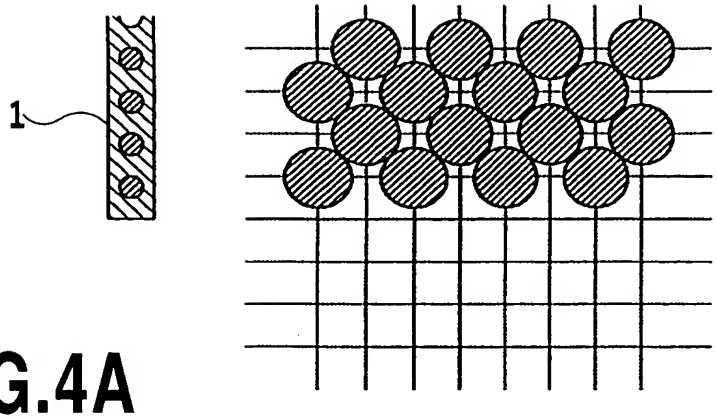


FIG.4A

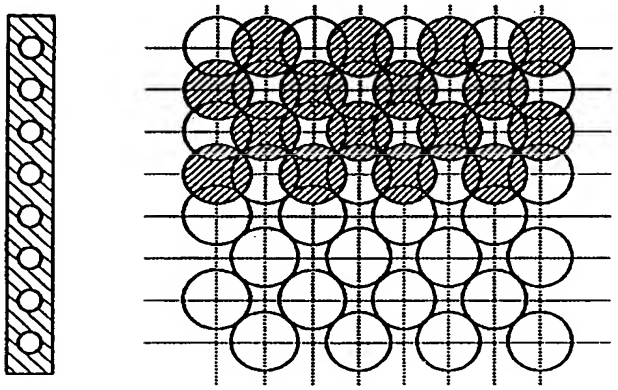


FIG.4B

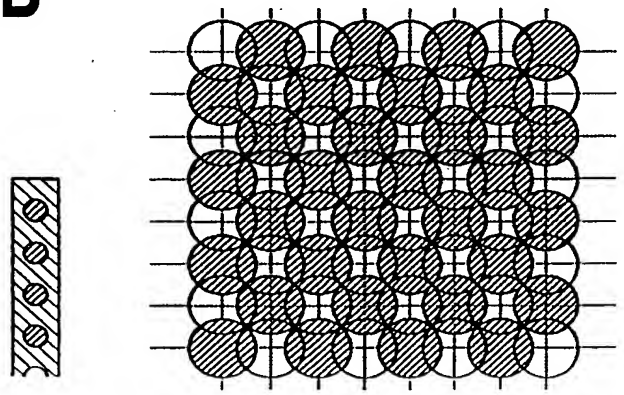
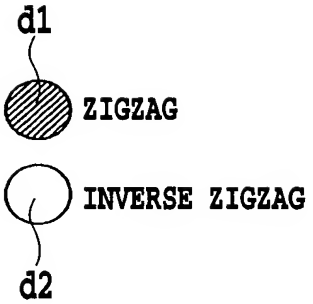


FIG.4C



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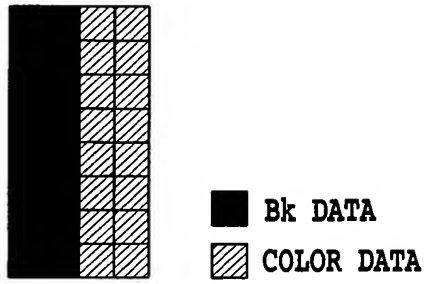


FIG.5A

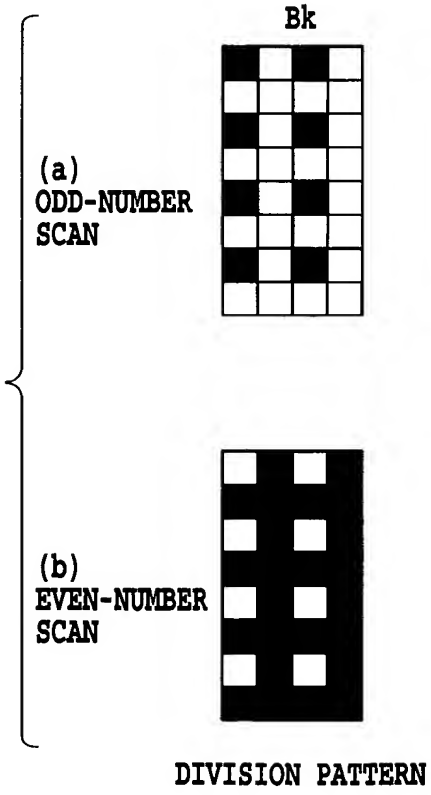


FIG.5B

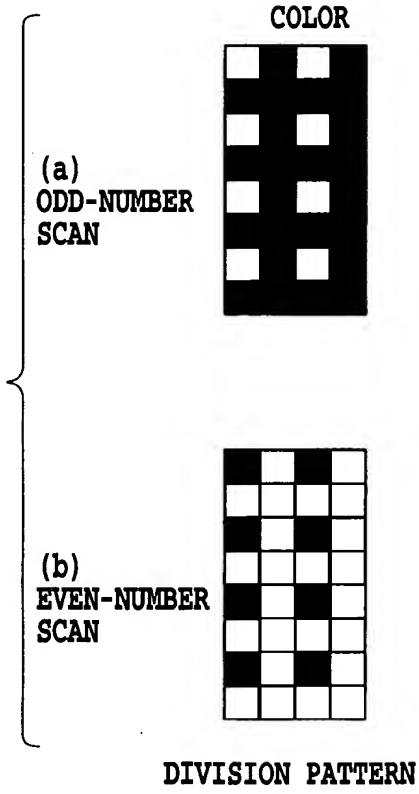


FIG.5C

EP 0 957 635 A2

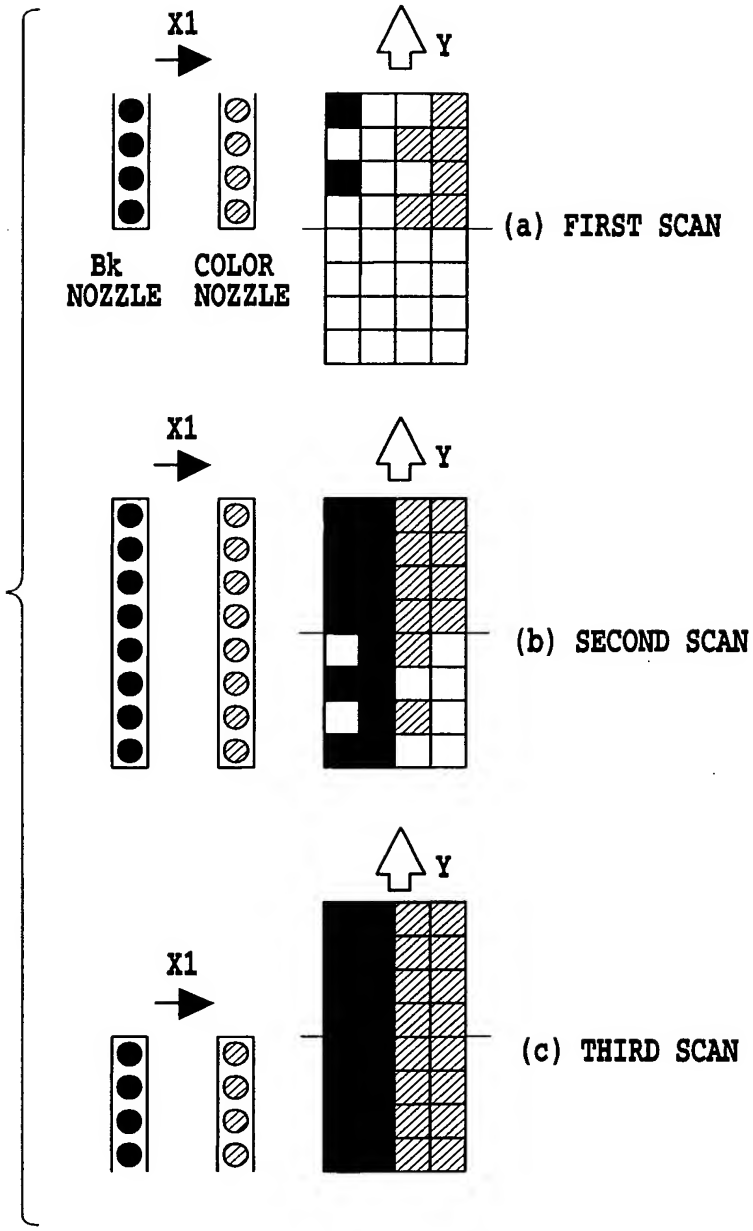
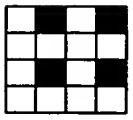

X1
Y
Bk NOZZLE
COLOR NOZZLE
(a) FIRST SCAN
X1
Y
(b) SECOND SCAN
Y
X1
(c) THIRD SCAN

FIG.5D

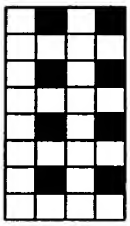
Bk IMAGE DATA
(4 X 8 PIXELS)

FIG.6A



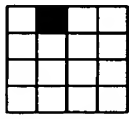
CYAN
EXPANSION
PATTERN

FIG.6B



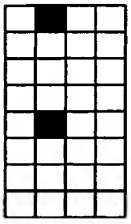
CYAN
OVERLAPPING
DATA

FIG.6D



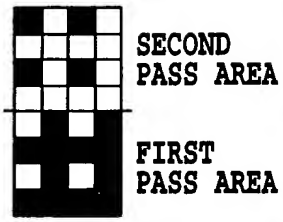
MAGENTA
AND YELLOW
EXPANSION
PATTERN

FIG.6C



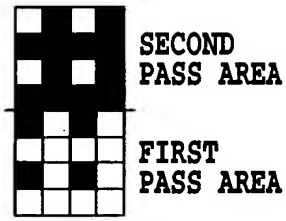
MAGENTA
AND YELLOW
OVERLAPPING
DATA

FIG.6E



DIVISION
PATTERN
(FOR Bk)

FIG.7A

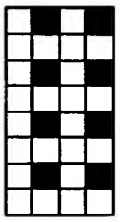


DIVISION
PATTERN
(FOR OTHER COLORS)

FIG.7B

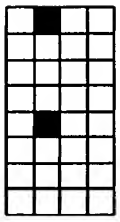
Bk IMAGE DATA
(4 X 8 PIXELS)

FIG.7C



CYAN
OVERLAPPING DATA

FIG.7D



MAGENTA AND
YELLOW OVERLAPPING DATA

FIG.7E

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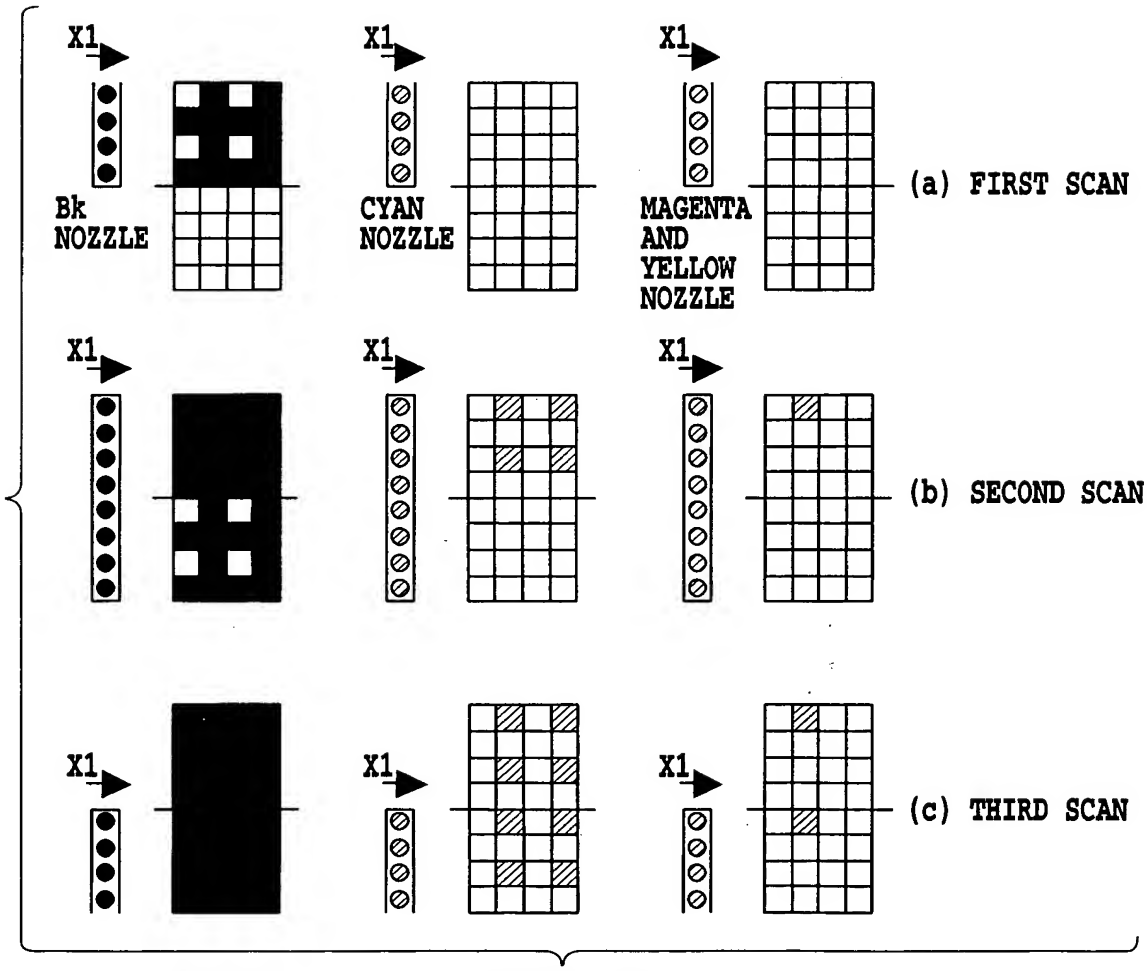
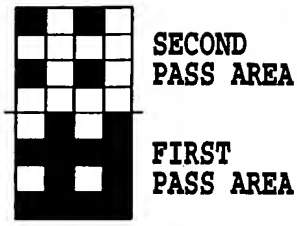


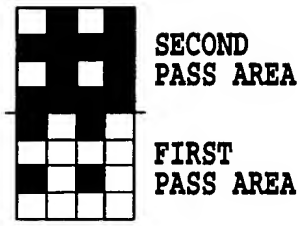
FIG.7F

EP 0 720 959 A1



DIVISION
PATTERN
(FOR Bk)

FIG.8A

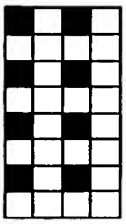


DIVISION
PATTERN
(FOR OTHER COLORS)

FIG.8B

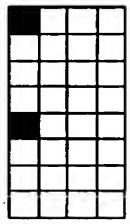
Bk IMAGE DATA
(4 X 8 PIXELS)

FIG.8C



CYAN
OVERLAPPING DATA

FIG.8D



MAGENTA AND
YELLOW OVERLAPPING DATA

FIG.8E

EP 0 757 328 A2

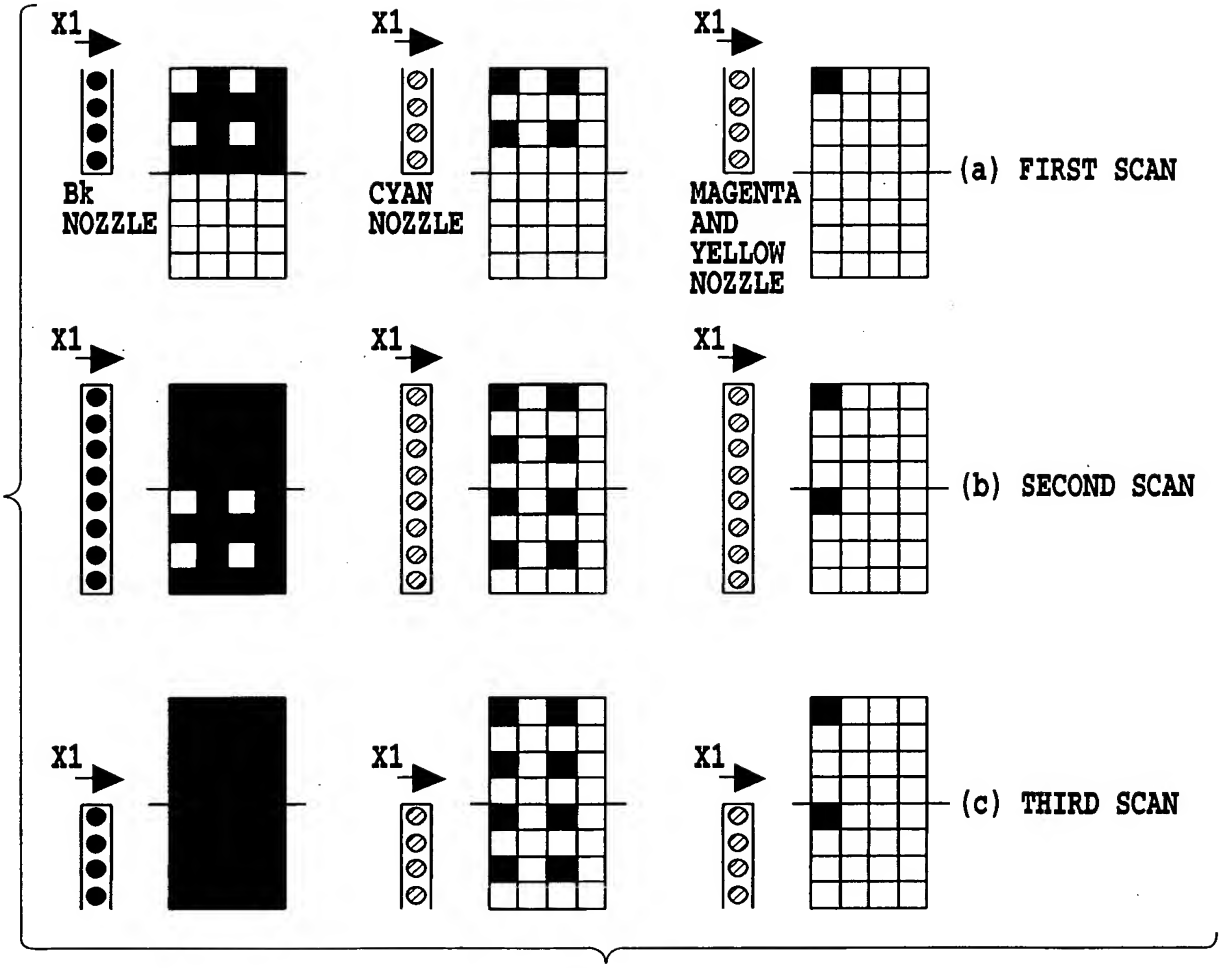


FIG.8F

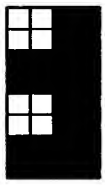
1005250.020702

Bk IMAGE DATA
(4 X 8 PIXELS)

FIG.9A

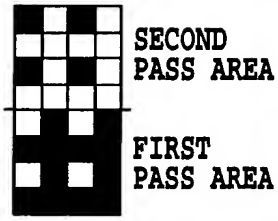
Bk
THINNING
PATTERN

FIG.9B



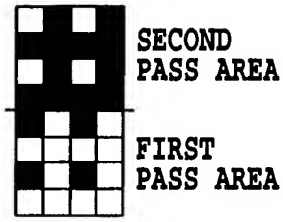
Bk
THINNED DATA

FIG.9C



DIVISION
PATTERN
(FOR Bk)

FIG.10A

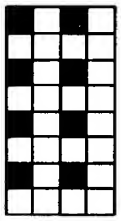


DIVISION
PATTERN
(FOR OTHER COLORS)

FIG.10B

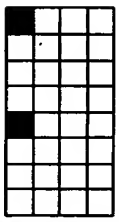
Bk THINNED DATA
(4 X 8 PIXELS)

FIG.10C



CYAN
OVERLAPPING DATA

FIG.10D



MAGENTA AND
YELLOW OVERLAPPING DATA

FIG.10E

1005350 - 020302

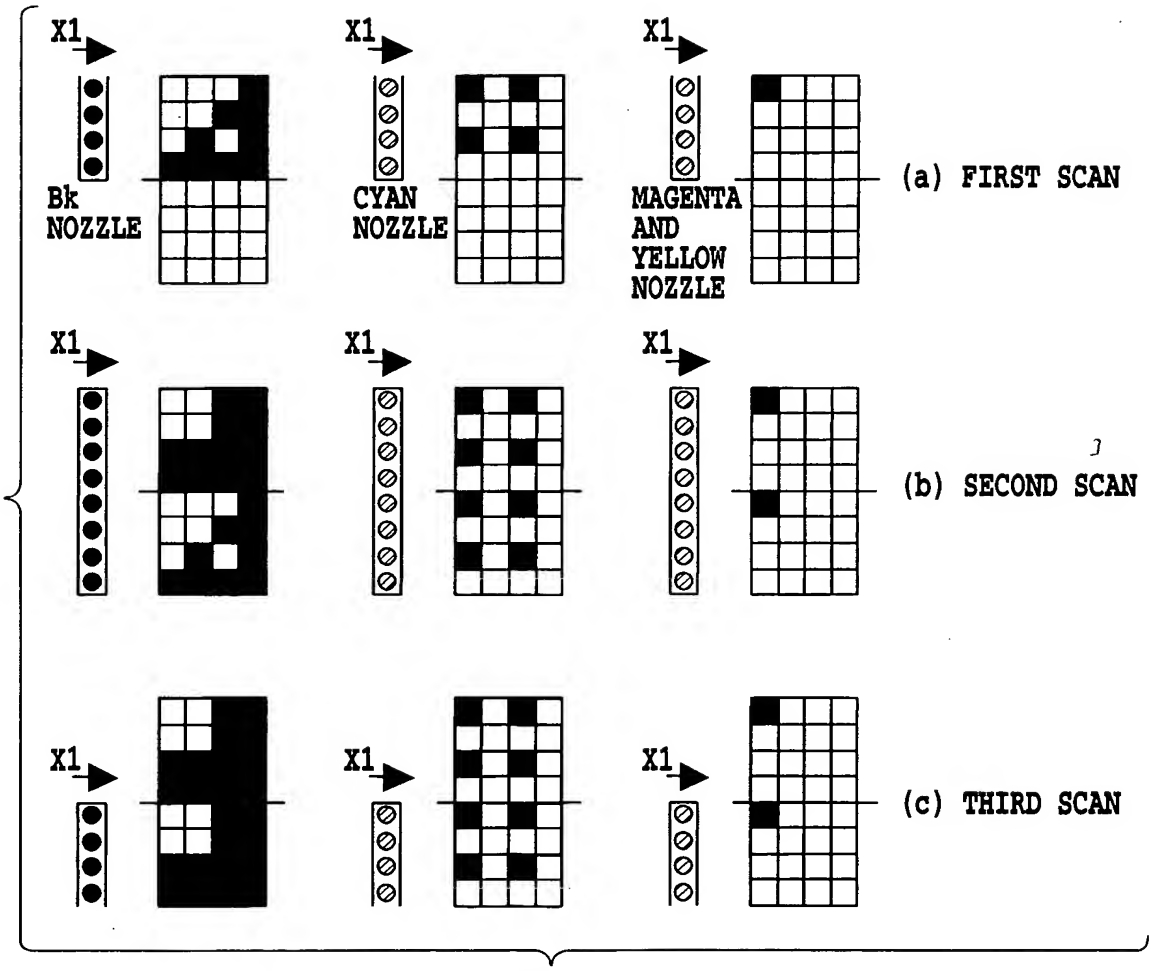
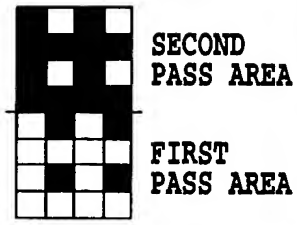
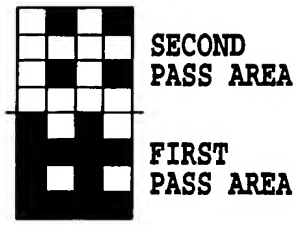

X1
Bk NOZZLE
CYAN NOZZLE
MAGENTA AND YELLOW NOZZLE
(a) FIRST SCAN
(b) SECOND SCAN
(c) THIRD SCAN

FIG.10F



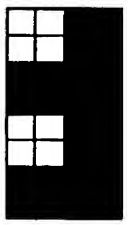
DIVISION
PATTERN
(FOR Bk)

FIG.11A



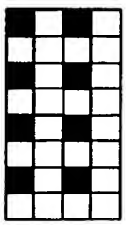
DIVISION
PATTERN
(FOR OTHER COLORS)

FIG.11B



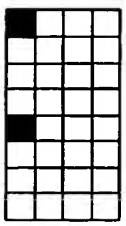
Bk THINNED DATA
(4 X 8 PIXELS)

FIG.11C



CYAN
OVERLAPPING DATA

FIG.11D



MAGENTA AND
YELLOW OVERLAPPING DATA

FIG.11E

1005725 020702

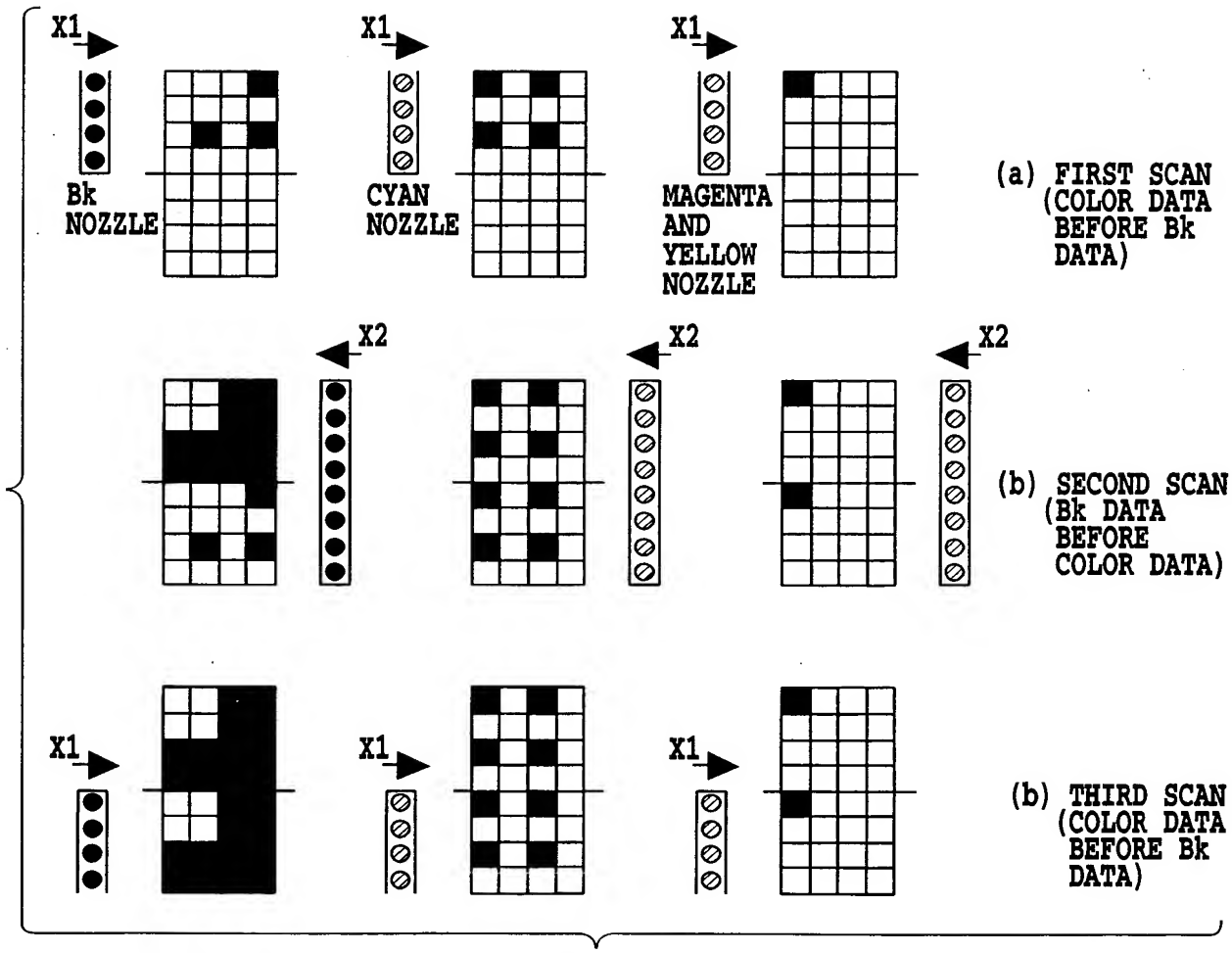

X1
Bk NOZZLE
X1
CYAN NOZZLE
X1
MAGENTA AND YELLOW NOZZLE
(a) FIRST SCAN (COLOR DATA BEFORE Bk DATA)
X2
X2
X2
(b) SECOND SCAN (Bk DATA BEFORE COLOR DATA)
X1
X1
X1
(b) THIRD SCAN (COLOR DATA BEFORE Bk DATA)

FIG.11F

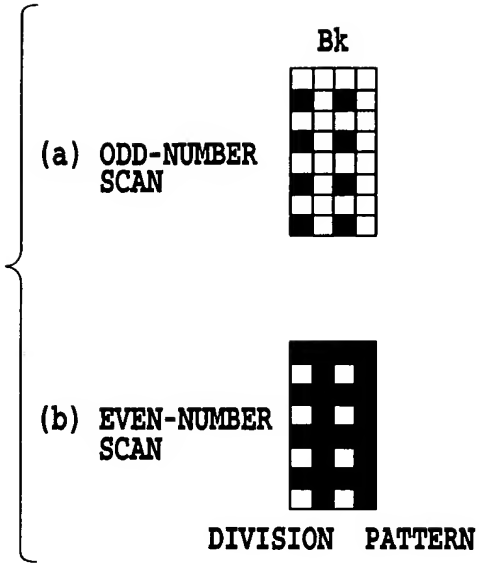


FIG.12A

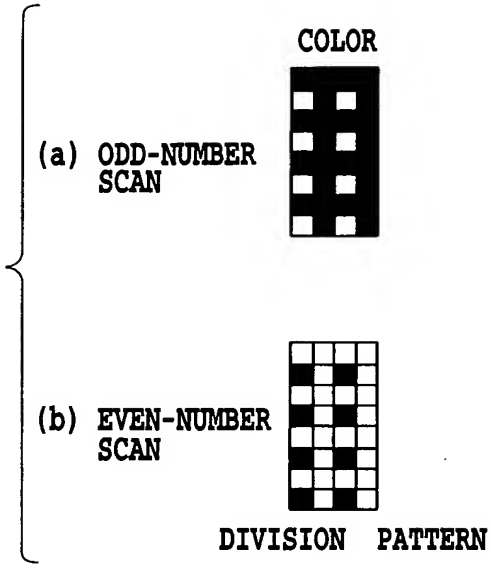
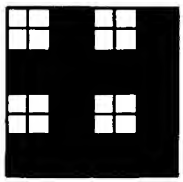
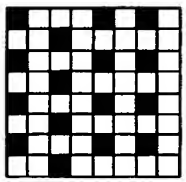


FIG.12B



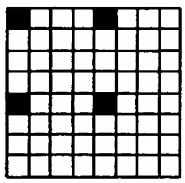
Bk THINNED DATA
(4 X 8 PIXELS)

FIG.12C



CYAN
OVERLAPPING DATA

FIG.12D



MAGENTA AND
YELLOW OVERLAPPING DATA

FIG.12E

1006750.020702

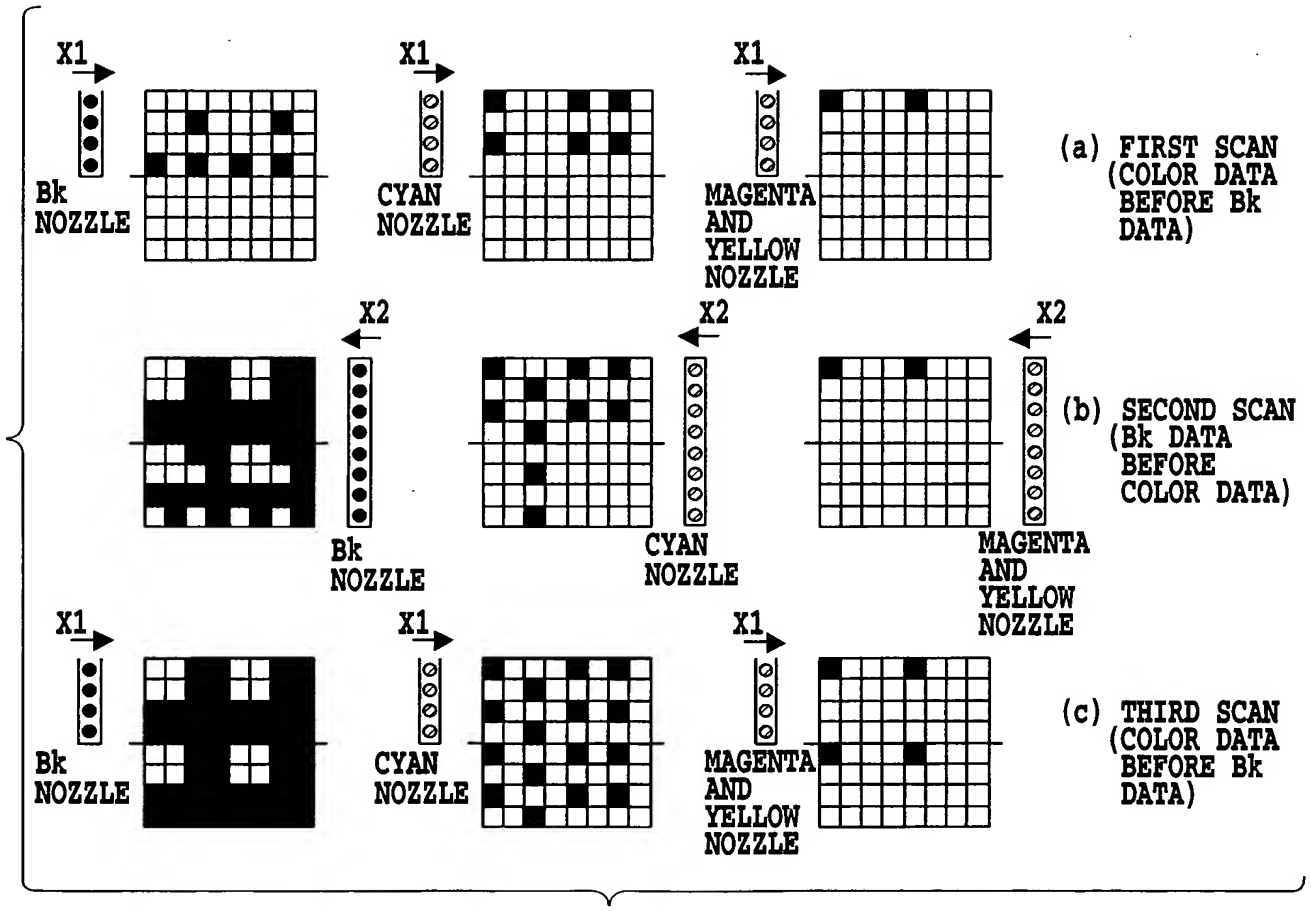


FIG.12F

1006755.020702